

CLAIMS

1. A distributor plate adapted to be releasably
5 mounted on a horizontal lower disc (4) of a rotor (1) of
a vertical shaft impact crusher, said rotor (1) having an
opening (8) for the intake of material to be crushed and
at least one outflow opening (26) for material leaving
the rotor (1), c h a r a c t e r i s e d in that the
10 distributor plate (38; 138; 338) is an equilateral
polygon as seen from above.

2. A distributor plate according to claim 1, wherein
the distributor plate (38; 138; 338) has a shape chosen
among triangular, square, hexagonal, octagonal and
15 nonagonal shapes.

3. A distributor plate according to claim 1 or 2,
wherein the number of sides (50, 52, 54, 56, 58, 60) of
the polygon being chosen such that the number of sides is
1, 2 or 3 times the number of outflow openings (26, 28,
20 30) of the rotor (1) to which the distributor plate (38)
is to be mounted.

4. A distributor plate according to claim 3, wherein
the number of sides (50, 52, 54, 56, 58, 60) is 2 times
the number of outflow openings (26, 28, 30) of the rotor
25 (1).

5. A distributor plate according to any one of the
preceding claims, wherein at least one straight side edge
(50) of the distributor plate (38) is adapted to be
parallel to an outflow direction (B) of material leaving
30 the rotor (1) and to be parallel and adjacent to a face
(62) of a lower wear plate (14) protecting the lower disc
(4) from wear.

6. A distributor plate according to any one of the
preceding claims, wherein the distributor plate (38) at
35 the centre of its lower face (84) has a recess (82)
adapted to make the distributor plate (38) horizontally
turnable around a vertical shaft (80) mounted on the

lower disc (4), such that the position of the distributor plate (38) in relation to the lower disc (4) may be adjusted before mounting the distributor plate (38).

7. A distributor plate according to claim 6, wherein
5 the recess (80) extends only through a part of the thickness of the distributor plate (38), the upper face (86) of the distributor plate (38) thus being unaffected by said recess (80).

8. A distributor plate according to any one of
10 claims 6 to 7, wherein the distributor plate (38) has a lower surface (84) which is adapted to be located at a higher level than the upper surface of lower wear plates (14, 16, 18) protecting the lower disc (4) of the rotor (1), such that the distributor plate (38) may be adjusted
15 without removing the lower wear plates (14, 16, 18).

9. A distributor plate according to any one of the preceding claims, wherein the upper face (386) of the distributor plate (338) comprises an unbroken layer (342) of a hard metal, such as tungsten carbide.

20 10. A distributor plate according to any one of the preceding claims, wherein the distributor plate comprises mounting means (88) located at a vertical side edge (50) of the distributor plate (38) and adapted for the mounting of a vertical support (72; 206) fixing the
25 distributor plate (38) to the lower disc (4) of the rotor (1).

11. A rotor for a vertical shaft impact crusher, the rotor (1) having an opening (8) for the intake of material to be crushed, at least one outflow opening (26)
30 for material leaving the rotor (1), and at least one lower wear plate (14) and a distributor plate (38) releasably mounted on a horizontal lower disc (4) of the rotor (1), c h a r a c t e r i s e d in that the distributor plate (38; 138; 338) is an equilateral
35 polygon as seen from above, at least one straight side edge (50) of the distributor plate (38) being parallel to an outflow direction (B) of material leaving the rotor

16

(1) and being parallel to and adjacent to a face (62) of the lower wear plate (14).